

Corrosion-Resistant High-Silicon Cast Iron for Chemical Engineering Components

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Abstract

© 2015, Springer Science+Business Media New York. A method is proposed for preparing corrosion-resistant high-silicon cast iron by processing fine waste from engineering enterprises in a self-propagating high-temperature synthesis process. Theoretical aspects for the SHS process and a practical procedure for implementing it are provided. Results of analyzing practical experiments are presented.

<http://dx.doi.org/10.1007/s10556-015-0014-3>

Keywords

corrosion, high silicon cast iron, recycling, resource conservation, SHS process